

CONTRIBUTION TO THE LICHEN FLORA OF BRAZIL X.  
Lichens from Guaiba, Rio Grande do Sul State.

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In a recent date (April 1982) the authors collected lichens in the City of Guaiba in the Municipality of the same name. Considering its proximity to the City of Porto Alegre it is to suppose that there could have been made several collections in this locality during the First Regnell Expedition (Malme 1897). However this name has been scarcely reported in the literature.

This Municipality has an increasing urban development and many industries and factories have been established here during the last years. Owing to this fact there is a good reason to assume that there will be a change of condition in its flora in a near future. Thus, the authors thought it could be of interest to make known the results obtained in spite of the scanty number of the studied specimens.

The zone visited is known as "Florida" and it is located within the urbanized area of the Guaiba City. With the exception of collections G/19, G/20 and G/21 all the lichen species gathered were found growing on cultivated trees on street sidewalks or in gardens.

The collected samples were distributed into two series alike, one of which has been deposited in ICN and the other in the senior author's private herbarium.

For each species we have indicated the previous records

for the Municipalities which integrate the so-called Great Porto Alegre. Unfortunately in the literature at our disposal only records for the Municipalities of Canoas, Porto Alegre, Sao Leopoldo and Viamao could be found. If the species is not recorded for the Great Porto Alegre, considerations about the State range are made.

Coccocarpia palmicola (Spreng.) Arvidss. & D. Gall.

On Jacaranda acutifolia at street sidewalk, G/8 pro parte. This genus is known in the Great Porto Alegre by a single collection of Coccocarpia pellita var. smaragdina from the Sao Leopoldo Municipality (Malme 1926).

Dirinaria applanata (Fée) Awasthi.

On Jacaranda acutifolia at street sidewalk, G/6. Already known from the Municipalities of Porto Alegre (Awasthi 1975) and Viamao (Osorio 1981).

Heterodermia diademata (Tayl.) Awasthi.

On Jacaranda acutifolia at street sidewalk, G/4, G/10; on trunk of Phytolacca dioica, G/20. Already reported from the Municipality of Porto Alegre (Lynge 1924 as Anaptychia; Osorio, Aguiar & Homrich 1981) and Viamao (Osorio 1981).

Heterodermia magellanica (Zahlbr.) Swinsc. & Krog.

On trunk of Thuja in an abandoned field, G/12a. First report for Rio Grande do Sul State.

Heterodermia propagulifera (Vain.) Dey.

On Jacaranda acutifolia at street sidewalk, G/5. First report for Rio Grande do Sul State.

Iopadium leucoxanthum (Spreng.) Zahlbr.

On trunk of Thuja in an abandoned field, G/12b. Recorded by Malme (1940) for the Municipalities of Canoas, Porto Alegre and Sao Leopoldo.

Normandina pulchella (Borr.) Nyl.

On Jacaranda acutifolia at street sidewalk, G/8 pro parte. Formerly known only from the Municipality of Torres (Osorio & Fleig 1982).

Farmelina consors (Nyl.) Hale

On Jacaranda acutifolia at street sidewalk, G/9. Recorded from Rio Grande do Sul State from the localities of Encruzilhada do Sul (Osorio & Homrich 1978), Montenegro (Osorio, Aguiar & Citadini 1980), and Santa Maria (Lynge 1913/14).

Parmotrema reticulatum (Tayl.) Choisy.

On Melia azedarach at street sidewalk, G/18b. In the Great Porto Alegre already known from the Municipality of Viamao ( Osorio 1981 ).

Parmotrema tinctorum (Nyl.) Hale.

On Jacaranda acutifolia at street sidewalk, G/3, G/7; on trunk of Pinus in an abandoned field, G/13; on trunk of Thuja in an abandoned field, G/11, G/14. All the specimens collected exhibited an excellent growth and those developed on coniferous trees covered several quadrat decimeters despite its occurrence within an urbanized area. In a former paper the authors (Osorio & Fleig 1982) called the attention about the lack of this species in the large collection made by G. Malme during the First Ragnell Expedition (Lynge 1913/14). The large plantation of exotic trees (Eucalyptus, Melia and Coniferae) are one of the reasons for the authors in the above mentioned paper to give a tentative explanation to the present large distribution of this species in the State. The here reported observations add new contributions to this hypothesis.

Phaeographina caesiopruinosa (Fée) Müll. Arg.

On Melia azedarach in a garden, G/17. Formerly known from the Municipalities of Canoas (Redinger 1935) and Porto Alegre ( Redinger 1935; Osorio, Aguiar & Homrich 1981.

Phaeographis lobata (Eschw.) Müll. Arg.

On Melia azedarach in a garden, G/16. In Rio Grande do Sul State this species is known only from the Municipality of Torres in the noreastern corner of the State (Osorio & Fleig 1982).

Phaeographis medusiformis (Krempfh.) Müll. Arg.

On Melia azedarach in a garden, G/18a. Formerly known from the Municipalities of Cachoeira do Sul (Redinger 1935a) and Torres (Osorio & Fleig 1982).

Physcia aipolia (Ehrh.) Hampe

On trunk of Phyrolacca dioica, G/21. In the State only known from the Municipality of Montenegro (Osorio, Aguiar & Citadini 1980).

Pseudoparmelia carneopruinata (Zahlbr.) Hale.

On Jacaranda acutifolia at street sidewalk, G/2. Formerly recorded from Montenegro (Osorio, Aguiar & Citadini 1980) and Torres (Osorio & Fleig 1982).

Pyxine endoleuca (Müll. Arg.) Vain.

On trunk of Phytolacca dioica, G/9. First record for Rio Grande do Sul State.

Trypethelium ochroleucum Nyl.

On Melia azedarach in a garden G/15. Already reported from Canoas and Sao Leopoldo (Malme 1925) and Viamao (Osorio 1981).

## SUMMARY

Seventeen lichen species collected in Guaiba City are listed. Heterodermia magellanica, H. propagulifera and Pyxine endoleuca are recorded for Rio Grande do Sul State for the first time. Seven other species are added to the known flora of the Great Porto Alegre.

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